

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 03/00313

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G01N 27/00, G01N 33/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G01N, G01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,Y	WO 0052453 A2 (STEAG MICROTECH GMBH), 8 Sept 2000 (08.09.00), page 5, line 20 - page 6, line 28, figure 1, claim 1, abstract --	1-22(IN PART)
Y	US 4458524 A (R.MEADOR ET AL), 10 July 1984 (10.07.84), column 3, line 35 - line 60, figure 5, abstract --	1-22(IN PART)
Y	US 5389883 A (R.HARPER), 14 February 1995 (14.02.95), column 2, line 22 - column 3, line 19, figures 1,5, abstract --	1-22(IN PART)

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

20 November 2003

Date of mailing of the international search report

28-11-2003

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 0107874 A1 (FORINNOVA AS), 1 February 2001 (01.02.01), page 7, line 10 - page 9, line 19, figures 5,6, abstract --	1-22(IN PART)
Y	"Development of Electromagnetic Tomography (EMT) for Industrial Applications.Part 1:Sensor Design and Instrumentation." A.J.Peyton et al 1 st World Congress on Industrial Process Tomography Buxton,Greater Manchester, April 14-17,1999 Part 1,2,3 fig.1 --	1-22(IN PART)
A	US 4812739 A (CLAUDE V.SWANSON), 14 March 1989 (14.03.89), claim 1, abstract --	1-22(IN PART)
A	DE 19619795 A1 (LIEB,HANS-DIETER ET AL), 20 November 1997 (20.11.97), claim 1, abstract --	1-22(IN PART)
A	Patent Abstracts of Japan vol 011,no.203 2 July 1987 (1987-07-02) & JP 62025246 A (KAWARADA TAKASHI ET AL) 3 February 1987 (1987-02-03) Abstract --	1-22(IN PART)
A	"Magnetic induction tomography" H.Griffiths In: Meas.Sci.Technol.12 (2001)1126-1131 MEASUREMENT SCIENCE AND TECHNOLOGY.15 June 2001 part 2 --	1-22(IN PART)

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International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>"Process tomography applied to multi-phase flow measurement." T.Dyakowski Meas.Sci.Technol.7(1996)343-353 8 January 1996.Part 2,4</p> <p style="text-align: center;">-- -----</p>	1-22(IN PART)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NO 03/00313**Box I** Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: **1-22 (in part)**
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
see extra sheet
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

Continuation of Box I

Present claims relate to a method and an arrangement for measuring conductive component content of a multiphase fluid flow and uses thereof. However claims 1-22 lack of essential features (Art 6 PCT; Rule 6.3 PCT) to such an extent that a meaningful search over the whole claimed range is impossible (Art 17 (2) PCT).

The claims are merely statements of desiderata, defined by reference to desirable properties, namely "using coil design optimised for non-conductive continuous mixtures and a coil optimised for conductive continuous mixtures". Therefore a novelty search covering the whole claimed scope of claims 1-22 is not possible.

The application provide support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT only for a device with two coils arranged around the pipe comprising the fluid to be measured, where the induced power loss in the mixture is determined, alternatively a number of coils arranged on the outside surface of the fluid transporting pipe. Consequently, the search preformed is only considered to cover the embodiments described in the application.

The applicant's attention is drawn to the fact that claims relating to the invention in respect of which no international search report has been established will not be the subject of an international preliminary examination (Rule 66.1(e) PCT). This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

06/09/03

International application No.

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Patent document cited in search report			Publication date	Patent family member(s)		Publication date
WO	0052453	A2	08/09/00	DE	10009402 A	03/05/01
US	4458524	A	10/07/84	NONE		
US	5389883	A	14/02/95	GB	2271637 A,B	20/04/94
				GB	9221650 D	00/00/00
				NO	933640 A	18/04/94
WO	0107874	A1	01/02/01	AU	5580100 A	13/02/01
				EP	1250573 A	23/10/02
				NO	993436 A	15/03/01
				NO	20020168 A	14/01/02
US	4812739	A	14/03/89	US	4820970 A	11/04/89
				WO	9009579 A	23/08/90
DE	19619795	A1	20/11/97	NONE		